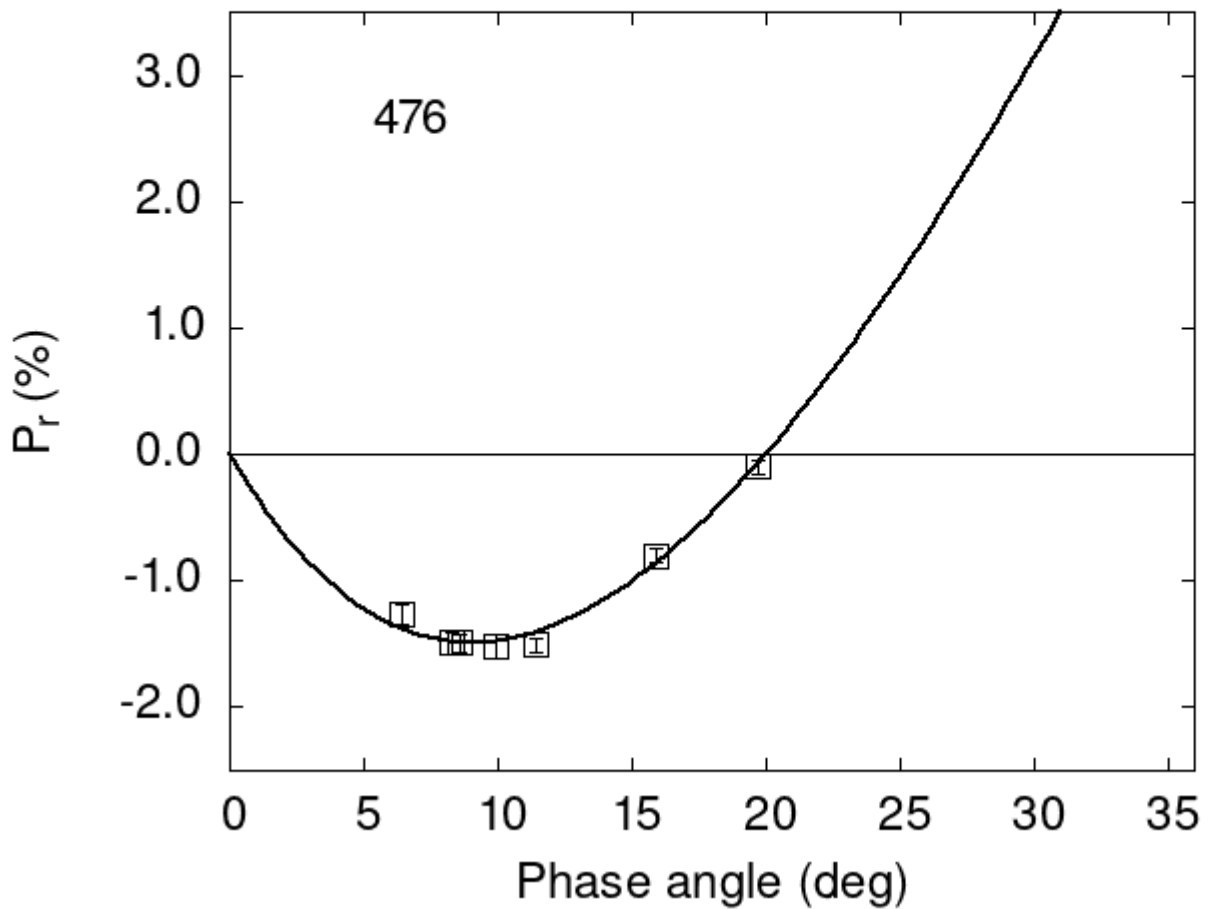


# Catalogue of Asteroid Polarization Curves

Gil-Hutton (2023)



## Polarimetric data:

The columns list the object number, the phase angle (degrees),  $P_r$  (%), its error, the filter used, and the reference code.

```
476  9.90 -1.52 0.09 V f
476  8.60 -1.49 0.07 V f
476  8.30 -1.49 0.09 V f
476 15.90 -0.80 0.05 V a
476  6.40 -1.27 0.08 V a
476 19.70 -0.10 0.05 V a
```

476 11.40 -1.51 0.06 V a

## Polarization Curve Parameters:

The polarimetric parameters were obtained fitting the observations to a polarization curve using the function:

$$P_r(\alpha) = Coe_1 \times \left[ \exp\left(-\frac{\alpha}{Coe_2}\right) - 1 \right] + Coe_3 \times \alpha,$$

where  $\alpha$  is the phase angle in degrees. The minimum of the polarization curve is identified by Pmin, Phmin is the phase angle where Pmin is reached, Ph0 is the inversion angle, and k is the slope of the polarization curve at Ph0.

```
#
#      Coe1      eCoe1      Coe2      eCoe2      Coe3      eCoe3
# 15.1067  0.5541  17.1350  0.4956  0.5200  0.0143
#
#      Phmin   err   Pmin   err   Ph0   err   k   err
#      9.05  0.82 -1.492  0.295 20.02  0.16 0.2458 0.0175
```